Message

From: Olson, Bryan [Olson.Bryan@epa.gov]
Sent: 12/12/2018 9:18:38 PM
To: Dunn, Alexandra [dunn.alexandra@epa.gov]; Szaro, Deb [Szaro.Deb@epa.gov]; Gutro, Doug [Gutro.Doug@epa.gov]
CC: Barmakian, Nancy [Barmakian.Nancy@epa.gov]
Subject: FW: Coakley Update -12/12/18

FYI. The latest info on Coakley. Please let me know if you a have any questions. Bryan

From: Hull, Richard
Sent: Wednesday, December 12, 2018 4:01 PM
To: Olson, Bryan <Olson.Bryan@epa.gov>
Cc: Murphy, Jim <Murphy.Jim@epa.gov>; Dumville, Kelsey <Dumville.Kelsey@epa.gov>; Cianciarulo, Robert <Cianciarulo.Bob@epa.gov>; Taylor, Melissa <Taylor.Melissag@epa.gov>
Subject: RE: Coakley Update -12/12/18

Hi Bryan. Here is a bi-weekly update for Coakley. My apologies for not providing an update on November 29.

Updated December 12, 2018

1. Treatment systems have been installed by the CLG at the two wells, 368 Breakfast Hill Road residence and Breakfast Hill Golf Club, that had recently exceeded the new AGQS for 1,4 dioxane. The systems are operating and have been approved by DES. Post-treatment samples were collected and 1,4 dioxane was not detected. DES is requiring that the CLG expand the GMZ to incorporate these two properties.

2. CLG submitted results from packer testing of newly installed bedrock boreholes. Samples from isolated fractures were analyzed for PFAS, 1,4 dioxane and VOCs. PFAS and 1,4 dioxane were detected a few fractures from 2 of the 3 new boreholes. Along with the data, CLG submitted a proposal for completing each of the boreholes.

3. CLG has gained access to 6 historic bedrock boreholes for surveying and sampling. Well redevelopment of 4 of the wells began the week of Dec. 10 and borehole geophysics will be initiated the week of Dec. 17. CLG has also gained access to survey and sample an existing supply well located on a parcel adjacent to the landfill. CLG continues to pursue access at 3 additional historic bedrock boreholes.

4. Wet weather storm water runoff samples were collected from landfill cover retention basins and discharge culverts, underdrain discharge locations and landfill seep locations on October 27. These samples were collected in accordance with a work plan that CLG prepared and EPA reviewed and approved, to further investigate the extent of PFAS contamination associated with landfill cover material. Samples are being analyzed and results will be provided once the data is reported by the lab. Additional wet weather sampling at these locations will be conducted in the spring. Samples of landfill cover materials (vegetative cover, compost, liner) have also been collected and are being analyzed.

5. Representatives from USGS visited the site on October 24 to become more familiar with site features and to discuss the scope of work for developing a localized flow model. Based on the findings of this visit, the USGS revised its scope of work and a Work Authorization Form was issued under the Interagency Agreement with the USGS.

6. Preliminary results from the fall LTEMP monitoring round show results consistent with past results, including PFAS results from residential wells. Data validated results should be available by the end of December, at which time they will be provided to the residents sampled.

Let me know if you have any questions on this.

Skip

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From: Hull, Richard
Sent: Thursday, November 15, 2018 12:42 PM
To: Olson, Bryan <Olson.Bryan@epa.gov>
Cc: Murphy, Jim <Murphy.Jim@epa.gov>; Dumville, Kelsey <Dumville.Kelsey@epa.gov>; Cianciarulo, Robert <Cianciarulo.Bob@epa.gov>; Taylor, Melissa <Taylor.Melissag@epa.gov>
Subject: RE: Coakley Update -10/4/18

Bryan, detailed below is my bi-weekly update for Coakley.

Updated November 15, 2018

1. Treatment systems have been installed by the CLG at the two wells, 368 Breakfast Hill Road residence and Breakfast Hill Golf Club, that had recently exceeded the new AGQS for 1,4 dioxane. The systems are operating and have been approved by DES. DES is requiring that the CLG expand the GMZ to incorporate these two properties.

2. Samples from packer testing of newly installed bedrock boreholes have been analyzed for PFAS, 1,4 dioxane and VOCs, and preliminary data has been provided. Final data is anticipated to be submitted next week. The CLG continues to pursue access to 7 historic boreholes for surveying and sampling and has gained verbal agreement to access 3 of the wells.

3. Wet weather storm water runoff samples were collected from landfill cover retention basins and discharge culverts, underdrain discharge locations and landfill seep locations on October 27. These samples were collected in accordance with a work plan that CLG prepared and EPA reviewed and approved, to further investigate the extent of PFAS contamination associated with landfill cover material. Samples are being analyzed and results will be provided once the data is reported by the lab. Additional sampling at these locations will be conducted in the spring.

4. Representatives from USGS visited the site on October 24 to become more familiar with site features and to discuss the scope of work for developing a localized flow model. Based on the findings of this visit, the USGS prepared a revised scope of work which has been reviewed by EPA an interagency agreement for the development of this flow model is being finalized. Development of this model is scheduled to take about 6-9 months.

Let me know if you have any questions on this.

Skip

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Sent: Thursday, November 01, 2018 1:49 PM
To: Olson, Bryan <Olson.Bryan@epa.gov>
Cc: Murphy, Jim <Murphy.Jim@epa.gov>; Dumville, Kelsey <Dumville.Kelsey@epa.gov>; Cianciarulo, Robert <Cianciarulo.Bob@epa.gov>; Taylor, Melissa <Taylor.Melissag@epa.gov>
Subject: RE: Coakley Update -10/4/18

Hi Bryan,

Bi-weekly update for Coakley.

Updated November 1, 2018

1. EPA and NHDES reviewed and approved proposed fracture zones for packer sampling from 3 new bedrock boreholes. Packer sampling for PFAS, 1,4 dioxane and VOCs has been completed and preliminary data (not validated) has been provided. Boreholes were sampled and analyzed for VOCs, PFAS and 1,4 dioxane. The CLG continues to pursue access to 7 historic boreholes for surveying and sampling. Some of these boreholes are located to the east and south of the landfill.

2. The CLG and NHDES collected samples from two wells (one residential at 368 Breakfast Hill Road, golf course clubhouse) that had previously had 1,4 dioxane levels above the now promulgated state standard of 0.32 ppb. The state directed the CLG to take these samples (DES collected split samples) after adoption of the new standard. The DES samples were above 0.32 ppb (0.38 ppb residential well, 0.61 ppb golf course clubhouse). October 5, DES sent the CLG a letter directing it to provide bottled water for the residential well owners and develop a plan for corrective action within 30 days. DES is preparing a similar letter for the golf course clubhouse well (results just received) for issuance today. The golf course clubhouse well is actually a regulated "transient non-community" system. The CLG sample results are undergoing data validation and have not yet been made available.

3. Mark Gearreald, attorney for the Town of Hampton, provided a statement from Tom Ballestero to the Commission at its meeting on October 10. A response was provided to Mark Gearreald and the commission prior to its meeting on October 24.

4. Wet weather storm water runoff samples were collected from landfill cover retention basins and discharge culverts, underdrain discharge locations and landfill seep locations on October 27. These samples were collected in accordance with a work plan that CLG prepared and EPA reviewed and approved, to further investigate the extent of PFAS contamination associated with landfill cover material.

5. Representatives from USGS visited the site on October 24 to become more familiar with site features and to discuss the scope of work for developing a localized flow model. A revised scope of work has been submitted based on this site visit and EPA comments. Upon review and approval, EPA will enter in to an interagency agreement for the development of this flow model.

6. Bob Sullivan, attorney for the City of Portsmouth and former chair of the CLG board, resigned his position from the board. A replacement has not yet been named.

Let me know if you have any questions.

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From: Hull, Richard
Sent: Thursday, October 18, 2018 5:34 PM
To: Cianciarulo, Robert <Cianciarulo.Bob@epa.gov>; Taylor, Melissa <Taylor.Melissag@epa.gov>; Olson, Bryan <Olson.Bryan@epa.gov>
Cc: Murphy, Jim <Murphy.Jim@epa.gov>; Dumville, Kelsey <Dumville.Kelsey@epa.gov>
Subject: RE: Coakley Update -10/4/18

Hi Bryan,

Bi-weekly update for Coakley Landfill. Not mush to update relative to ongoing investigation work, except that it is ongoing. There are a couple of things that came out of the leg. comm. meeting last week as well as some new information related to the DES enforcing its new 1,4 dioxane standard.

Updated October 18, 2018

1. The NHDES MtBE bureau completed sampling of additional residential wells in Greenland, North Hampton and Rye. Samples were submitted to, and analyzed by OEME and results have been provided to the residents. Of the 20 original requests, 14 wells were sampled (3 previously sampled by NHDES, 2 residents moved, 1 sampled on their own). Summary of results:
    - 7 of 14 were ND for PFAS
    - PFOA detected in 7 wells
    - PFOS, PFBS and PFHxS also detected
    - No results either individually or collectively were above 70 ppt
    - One PFBS result at 14 ppt; otherwise all results below 6 ppt

2. EPA and NHDES reviewed and approved proposed fracture zones for packer sampling from 3 new bedrock boreholes. Packer sampling for PFAS, 1,4 dioxane and VOCs has been completed but results are not yet available. Boreholes were sampled and analyzed for VOCs, PFAS and 1,4 dioxane. The CLG continues to pursue access to 7 historic boreholes for surveying and sampling. Some of these boreholes are located to the east and south of the landfill.

3. The CLG and NHDES collected samples from two wells (one residential at 368 Breakfast Hill Road, golf course clubhouse) that had previously had 1,4 dioxane levels above the now promulgated state standard of 0.32 ppb. The state directed the CLG to take these samples (DES collected split samples) after adoption of the new standard. The DES sample was above 0.32 ppb (0.38 ppb) and so on October 5, DES sent the CLG a letter directing it to provide bottled water and develop a plan for corrective action within 30 days. The CLG results have not yet been made available.

4. Mark Gearreald, attorney for the Town of Hampton, provided a statement from Tom Ballestero (attached) to the Commission at its meeting on October 10. In the two-page statement, Mr. Ballestero reiterates some of his prior assertions and interpretations related to flow and contaminant transport at the landfill and asks for a "more urgent response at the Coakley Landfill". Mr. Ballestero also asserts that none of his suggestions have been implemented and that errors in the conceptual model that he has pointed out have "been largely ignored." Worth noting is that Mr. Ballestero does state that "radial flow continued up until the landfill was capped" and that "landfill capping most likely affected groundwater flow at the landfill…" which is something he has not acknowledged in the past. Jim Murphy committed to a response to this statement for the next commission meeting.

Let me know if you have any questions.

Skip

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From: Hull, Richard
Sent: Thursday, October 04, 2018 11:28 AM
To: Cianciarulo, Robert <Cianciarulo.Bob@epa.gov>; Taylor, Melissa <Taylor.Melissag@epa.gov>; Olson, Bryan <Olson.Bryan@epa.gov>
Cc: Murphy, Jim <Murphy.Jim@epa.gov>; Dumville, Kelsey <Dumville.Kelsey@epa.gov>
Subject: RE: Coakley Update -10/4/18

Hi Bryan,

Bi-weekly update for Coakley Landfill. I've also include this information in an update to the Legislative Commission, along with responses to a couple of specific questions from the last meeting. The Commission is meeting again next week.

Let me know if you have any questions.

Skip

Updated October 4, 2018

1. Note this summary of residential sampling is amended from the Sept. 24 update: The NHDES MtBE bureau completed sampling of additional residential wells in Greenland, North Hampton and Rye. Samples were submitted to, and analyzed by OEME and results have been provided to the residents. Of the 20 original requests, 14 wells were sampled (3 previously sampled by NHDES, 2 residents moved, 1 sampled on their own). Summary of results:
    - 7 of 14 were ND for PFAS
    - PFOA detected in 7 wells
    - PFOS, PFBS and PFHxS also detected
    - No results either individually or collectively were above 70 ppt
    - One PFBS result at 14 ppt; otherwise all results below 6 ppt

2. The results of fish tissue sampling and analysis were reported to EPA on September 4. Fish were collected from five different locations in Berrys Brook ranging from about 1 mile to about 5 miles from the landfill. Of the six PFAS analyzed, PFOA, PFOS and PFNA were detected. PFOS was detected in all samples from the five locations and had the highest concentrations of the substances detected. Some results were above the risk-based

Deliberative Process / Ex. 5

3. On August 14, CLG submitted results of sampling of stormwater collected from the landfill cap retention pond discharge and subsurface collection system. CES, consultant for CLG, concluded that the data was showing that materials used to construct the cap may be contributing PFAS to stormwater runoff, which discharges to Berrys Brook. EPA prepared and issued a response on August 17, asking for additional sampling and investigation of cap construction to be performed. CLG submitted a draft work plan on September 10, and EPA conditionally approved the work plan on September 26. Investigation activities will include further sampling of stormwater and subsurface collection system discharges and the assessment of cap and retention pond construction and materials.
4. EPA and NHDES reviewed and approved proposed fracture zones for packer sampling from 3 new bedrock boreholes. Packer sampling for PFAS, 1,4 dioxane and VOCs has begun and will be completed in the next couple of weeks, with analytical results to follow (based on laboratory reporting). The CLG is also pursuing access to 7 historic boreholes for surveying and sampling, some of which are located to the east and south of the landfill.

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From: Hull, Richard
Sent: Monday, September 24, 2018 11:53 AM
To: Cianciarulo, Robert <Cianciarulo.Bob@epa.gov>; Taylor, Melissa <Taylor.Melissag@epa.gov>; Olson, Bryan <Olson.Bryan@epa.gov>
Subject: Coakley Update - 9/24/18

Hi Bryan. Bi-weekly update for Coakley including results in from sampling of the 20 additional residential wells that were identified in response to the citizens petition.

Updated September 24, 2018

1. The NHDES MtBE bureau completed sampling of additional residential wells in Greenland, North Hampton and Rye. Samples were submitted to, and analyzed by OEME and results have been provided to the residents. Of the 20 original requests, 12 wells were sampled (3 previously sampled by NHDES, 2 residents moved, 1 sampled on their own, 2 did not respond to schedule sampling). Summary of results:
    - 6 of 12 were ND for PFAS
    - PFOA detected in 6 wells
    - PFOS, PFBS and PFHxS also detected

- No results either individually or collectively were above 70 ppt
- One PFBS result at 14 ppt; otherwise all results below 6 ppt

2. The results of fish tissue sampling and analysis were reported to EPA on September 4. Fish were collected from five different locations in Berrys Brook ranging from about 1 mile to about 5 miles from the landfill. Of the six PFAS analyzed, PFOA, PFOS and PFNA were detected. PFOS was detected in all samples from the five locations and had the highest concentrations of the substances detected. Some results were above the risk-based

Deliberative Process / Ex. 5

3. On August 14, CLG submitted results of sampling of stormwater collected from the landfill cap retention pond discharge and subsurface collection system. CES, consultant for CLG, concluded that the data was showing that materials used to construct the cap may be contributing PFAS to stormwater runoff, which discharges to Berrys Brook. EPA prepared and issued a response on August 17, asking for additional sampling and investigation of cap construction to be performed. CLG submitted a draft work plan on September 10. EPA and NHDES are currently reviewing and developing a conditional approval for the work plan.
4. EPA and NHDES reviewed and approved proposed fracture zones for packer sampling from 3 new bedrock boreholes. Packer sampling for PFAS, 1,4 dioxane and VOCs will begin on September 25.
5. EPA is working with USGS and NHDES to develop a scope of work for a site-specific model for groundwater flow in bedrock.

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From: Hull, Richard
Sent: Thursday, September 06, 2018 4:47 PM
To: Cianciarulo, Robert <Cianciarulo.Bob@epa.gov>; Taylor, Melissa <Taylor.Melissag@epa.gov>; Olson, Bryan <Olson.Bryan@epa.gov>
Subject: RE: Coakley Update - 8/8/18

Hi Bryan. Bi-weekly update for Coakley, most notably the fish tissue info. I would stress that OEME is conducting a data verification review for the fish tissue data report and that we have not provided the risk interpretation included below to the public or press.

Updated September 6, 2018

1. The NHDES MtBE bureau completed sampling of additional residential wells in Greenland, North Hampton and Rye. Samples were submitted to, and analyzed by OEME and results from some of the initial wells sampled have been provided. PFAS were not detected in four of the first ten wells sampled. PFOA was detected in six wells, PFOS in one well, PFHxS in one well and PFBS in one well. All results were well below the HA of 70 ppt, and except for the PFBS result of 14 ppt, below 6 ppt.

2. The results of fish tissue sampling and analysis were reported to EPA on September 4. Fish were collected from five different locations in Berrys Brook ranging from about 1 mile to about 5 miles from the landfill. Of the six PFAS analyzed, PFOA, PFOS and PFNA were detected. PFOS was detected in all samples from the five locations and had the highest concentrations of the substances detected. Some results were above the risk-based screening level of 5.21 ng/g (based on HQ=0.1). Deliberative Process / Ex. 5

Deliberative Process / Ex. 5

3. On August 14, CLG submitted results of sampling of stormwater collected from the landfill cap retention pond discharge and subsurface collection system. CES, consultant for CLG, concluded that the data was showing that materials used to construct the cap may be contributing PFAS to stormwater runoff, which discharges to Berrys Brook. EPA prepared and issued a response on August 17, asking for additional sampling and investigation of cap construction to be performed. EPA asked for a workplan to be submitted in 15 days.
4. EPA attended the legislative commission meeting on September 5 and presented some update information to the commission. Tara Somers of ATSDR also discussed the role of ATSDR and the development of its MLR for PFAS.
5. EPA is working with USGS and NHDES to develop a scope of work for a site-specific model for groundwater flow in bedrock.

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From: Hull, Richard
Sent: Thursday, August 23, 2018 4:53 PM
To: Cianciarulo, Robert <Cianciarulo.Bob@epa.gov>; Taylor, Melissa <Taylor.Melissag@epa.gov>; Olson, Bryan <Olson.Bryan@epa.gov>
Subject: RE: Coakley Update - 8/8/18

Hi Bryan. Sorry I'm just getting to this now, but here is an update on the Coakely issues we provided on August 8.

Updated August 23, 2018

1. The NHDES MtBE bureau began sampling of additional residential wells in Greenland, North Hampton and Rye this week.
2. EPA and NHDES met with Kim McNamara on August 23, along with a consultant for the City of Portsmouth to discuss technical issues related to actions the CLG or City could voluntarily initiate to alleviate impacts to residents near Coakley. The treatment of impacted surface water was discussed in detail. Kim will present to Bob Sullivan for the CLG to consider.
3. Fish tissue samples are being processed and results are expected in a few weeks.
4. On August 14, CLG submitted results of sampling of stormwater collected from the landfill cap retention pond discharge and subsurface collection system. CES, consultant for CLG, concluded that the data was showing that

materials used to construct the cap may be contributing PFAS to stormwater runoff, which discharges to Berrys Brook. EPA prepared and issued a response on August 17, asking for additional sampling and investigation of cap construction to be performed. EPA asked for a workplan to be submitted in 15 days.

Sorry again for this being late. Let me know if you have any questions, although I am off tomorrow but back on Monday.

Skip

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From: Hull, Richard
Sent: Wednesday, August 08, 2018 1:19 PM
To: Cianciarulo, Robert <Cianciarulo.Bob@epa.gov>; Taylor, Melissa <Taylor.Melissag@epa.gov>; Olson, Bryan <Olson.Bryan@epa.gov>
Subject: RE: Coakley Update - 8/8/18

I just heard from the PRP's consultant that the results from the analysis of fish tissue samples will be provided by the end of August.

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From: Cianciarulo, Robert
Sent: Wednesday, August 08, 2018 12:39 PM
To: Hull, Richard <Hull.Richard@epa.gov>; Taylor, Melissa <Taylor.Melissag@epa.gov>; Olson, Bryan <Olson.Bryan@epa.gov>
Subject: RE: Coakley Update - 8/8/18

Bryan – see below. If Skip gets any more on the fish in time for your meeting this afternoon, he can update it, otherwise we'll do it in a subsequent update.

Our proposal is to have Skip do an update like this for you every two weeks so you have it for Alex and your HQ check-ins.

From: Hull, Richard
Sent: Wednesday, August 08, 2018 12:34 PM
To: Taylor, Melissa <Taylor.Melissag@epa.gov>; Cianciarulo, Robert <Cianciarulo.Bob@epa.gov>
Subject: Coakley Update - 8/8/18

Here's the revised update. I ran in to Bryan and he was looking for this for a meeting with Alex this afternoon. I tried to get more details on fish sample analysis and results, but haven't heard back from PRPs who are checking with lab.

Updated August 8, 2018

An June 4, 2018, the Regional Administrator met with Jillian Lane of Greenland Safe Water Action, and other members of the community who live near the Coakley Landfill. At that meeting, Jillian presented the RA with a petition signed by 135 concerned citizens that requested action be taken to address issues related to PFAS contamination at the Coakley Landfill and the local community. On July 3, 2018, the RA responded to that petition with action items addressing the issues outlined in the petition. Below is an update of the actions being taken to address those, and other issues:

1. Issue: The petition outlined concerns related to residential wells that are impacted by PFAS contamination and asked for access to a safe water supply and expanded residential well sampling.

   Status: To date, all residential wells sampled remain below the HA of 70 ppt for PFOA and PFOS. On August 6, EPA mailed letters to 20 residents in Greenland, North Hampton and Rye offering sampling of tap water and analysis for PFAS. These residents had previously requested sampling, including a number that requested sampling during the June 4 community meeting with Alex Dunn. Beginning a few days after the mailing, the NHDES MtBE bureau will begin contacting the residents to schedule sampling. Samples will be shipped to OEME for analysis of PFAS.

2. Issue: EPA committed to working with the USGS to better define the local hydrogeology and flow patterns to better characterize the potential for the flow of PFAS contamination to local residents.

   Status: OSRTI has provided funding to the region for this task and OSRR has initiated an Interagency Agreement with USGS to develop a model to evaluate site-specific hydrogeologic flow conditions at and around Coakley Landfill. USGS submitted a draft work plan and budget estimate, and OSRR has provided comments. Depending on the USGS internal review process, the IA will be finalized and work will begin by the start of FY19.

3. Issue: The petition asked that EPA compel the CLG to install effective remediation to address PFAS contamination.

   Status: EPA and NHDES met with the City of Portsmouth's health officer, Kim McNamara, to discuss voluntary measures that the City and/or CLG can undertake to alleviate the impacts to residents near Coakley Landfill. Kim had reached out to both EPA and NHDES looking for suggestions. Suggested measures include providing point-of-use water supply filtration systems, extending a municipal water supply line, expand residential well sampling, and maintenance and treatment of impacted surface water. Kim will convene a meeting in mid-August to discuss these issues in more detail.

4. Other Issues: Bedrock investigation continues with installation of three deep-bedrock wells and the completion of geophysical surveying the week of July 30. Geophysics data will be used to identify water-bearing fractures for sampling beginning in August. Existing bedrock wells have been inventoried and geophysics and sampling will also be performed on those wells determined to be viable.

5. Other Issues: Fish samples have been collected from Berrys Brook and have been processed and analyzed. EPA is awaiting analytical results which will be submitted following the laboratory data validation and review process.

6. Other Issues: CLG is developing a work plan for assessing impacts of the discharge of runoff from the surface of the landfill cap to surface water receptors to identify potential PFAS contributions that may exist beyond landfill leachate. This work plan will be submitted Sept.-Oct.

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